

Variable	Mean	SD	Min	Max
Age	34.5	10.2	18	65
Gender	Male	Female		
Marital status	Married	Single		
Education	High school	College		
Occupation	Manager	Worker		
Income	\$10,000	\$20,000		
Health status	Good	Poor		
Exercise frequency	Weekly	Monthly		
Stress level	Low	High		
Sleep quality	Good	Poor		
Dietary habits	Healthy	Unhealthy		
Alcohol consumption	None	Occasional		
Tobacco use	Non-smoker	Smoker		
Family size	2	3		
Home ownership	Owner	Renter		
Commute time	15 min	30 min		
Work hours	40 hrs	50 hrs		
Job satisfaction	High	Low		
Life satisfaction	High	Low		
Overall health	Good	Poor		

34

290										295														
Gly	Phe	Asp	Thr	Asn	Gln	Glu	Ile	Phe	Gln	Glu	Leu	Ser												
300					305					310														
Arg	Gly	Leu	Pro	Thr	Gly	Gln	Ala	Gln	Val	Ala	Val	His												
		315					320					325												
Cys	Leu	Lys	Val	Pro	Lys	Ile	Ser	Cys	Gln	Asn	Arg	Gly												
				330					335															
Val	Val	Val	Ser	Ser	Ser	Val	Ala	Val	Thr	Phe	Arg	Phe												
	340					345					350													
Pro	Arg	Pro	Asp	Gly	Arg	Glu	Ala	Val	Ala	Tyr	Arg	Phe												
			355					360																
Glu	Glu	Asp	Ile	Ile	Thr	Thr	Val	Gln	Ala	Ser	Tyr	Ser												
365					370					375														
Gln	Lys	Lys	Leu	Phe	Leu	His	Leu	Leu	Asp	Phe	Gln	Cys												
		380					385					390												
Val	Pro	Ala	Ser	Gly	Arg	Ala	Gly	Ser	Ser	Ala	Asn	Leu												
				395				400																
Ser	Val	Ala	Leu	Arg	Thr	Glu	Ala	Lys	Ala	Val	Ser	Asn												
	405					410					415													
Leu	Thr	Glu	Ser	Arg	Ser	Glu	Ser	Leu	Gln	Ser	Ser	Leu												
			420					425																
Arg	Ser	Leu	Ile	Ala	Thr	Val	Gly	Ile	Pro	Glu	Val	Met												
430					435					440														
Ser	Arg	Leu	Glu	Val	Ala	Phe	Thr	Ala	Leu	Met	Asn	Ser												
		445				450					455													
Lys	Gly	Leu	Asp	Leu	Phe	Glu	Ile	Ile	Asn	Pro	Glu	Ile												
				460				465																
Ile	Thr	Leu	Asp	Gly	Cys	Leu	Leu	Leu	Gln	Met	Asp	Phe												
	470				475					480														
Gly	Phe	Pro	Lys	His	Leu	Leu	Val	Asp	Phe	Leu	Gln	Ser												
			485				490																	
Leu	Ser																							
495																								

(2) INFORMATION FOR SEQ ID NO: 3:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 1428 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

TGCTCCAAAG	GCACCTCGCA	CGAGGCAGGC	ATCGTGTGCC	GCATCACCAA	50
GCCTGCCCTC	CTGGTGTTGA	ACCACGAGAC	TGCCAAGGTG	ATCCAGACCG	100
CCTTCCAGCG	AGCCAGCTAC	CCAGATATCA	CGGGCGAGAA	GGCCATGATG	150
CTCCTTGGCC	AAGTCAAGTA	TGGGTTCAC	AACATCCAGA	TCAGCCACTT	200
GTCCATCGCC	AGCAGCCAGG	TGGAGCTGGT	GGAAGCCAAG	TCCATTGATG	250
TCTCCATTCA	GAACGTGTCT	GTGGTCTTCA	AGGGGACCCT	GAAGTATGGC	300
TACACCACTG	CCTGGTGGCT	GGGTATTGAT	CAGTCCATTG	ACTTCGAGAT	350
CGACTCTGCC	ATTGACCTCC	AGATCAACAC	ACAGCTGACC	TGTGACTCTG	400
GTAGAGTGCG	GACCGATGCC	CCTGACTGCT	ACCTGTCTTT	CCATAAGCTG	450
CTCCTGCATC	TCCAAGGGGA	GCGAGAGCCT	GGGTGGATCA	AGCAGCTGTT	500
CACAAATTTT	ATCTCCTTCA	CCCTGAAGCT	GGTCCTGAAG	GGACAGATCT	550
GCAAAGAGAT	CAACGTCATC	TCTAACATCA	TGGCCGATTT	TGTCCAGACA	600
AGGGCTGCCA	GCATCCTTTC	AGATGGAGAC	ATTGGGGTGG	ACATTTCCCT	650
GACAGGTGAT	CCCGTCATCA	CAGCCTCCTA	CCTGGAGTCC	CATCACAAGG	700
GTCATTTTCA	CTACAAGAAT	GTCTCAGAGG	ACCTCCCCCT	CCCCACCTTC	750
TCGCCCACAC	TGCTGGGGGA	CTCCCGCATG	CTGTACTTCT	GGTTCTCTGA	800
GCGAGTCTTC	CACTCGCTGG	CCAAGGTAGC	TTTCCAGGAT	GGCCGCCTCA	850
TGCTCAGCCT	GATGGGAGAC	GAGTTCAAGG	CAGTGCTGGA	GACCTGGGGC	900

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TTCAACACCA ACCAGGAAAT CTTCCAAGAG GTTGTGCGCG GCTTCCCCAG    950
CCAGGCCCAA GTCACCGTCC ACTGCCTCAA GATGCCCAAG ATCTCCTGCC    1000
AAAACAAGGG AGTCGTGGTC AATTCTTCAG TGATGGTGAA ATTCCTCTTT    1050
CCACGCCCAG ACCAGCAACA TTCTGTAGCT TACACATTG AAGAGGATAT    1100
CGTGACTACC GTCCAGGCCT CCTATTCTAA GAAAAAGCTC TTCTTAAGCC    1150
TCTTGATTTT CCAGATTACA CCAAAGACTG TTTCCAACCTT GACTGAGAGC    1200
AGCTCCGAGT CCATCCAGAG CTTCTGCAG TCAATGATCA CCGCTGTGGG    1250
CATCCCTGAG GTCATGTCTC GGCTCGAGGT AGTGTTTACA GCCCTCATGA    1300
ACAGCAAAGG CGTGAGCCTC TTCGACATCA TCAACCCTGA GATTATCACT    1350
CGAGATGGCT TCCTGCTGCT GCAGATGGAC TTTGGCTTCC CTGAGCACCT    1400
GCTGGTGGAT TTCCTCCAGA GCTTGAGC                                1428

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(2) INFORMATION FOR SEQ ID NO: 4:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 476 amino acids

(B) TYPE: amino acid

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL:

(iv) ANTI-SENSE:

(ix) FEATURE:

(A) NAME: Amino acid sequence of mature human CETP

(B) LOCATION:

(x) PUBLICATION INFORMATION:

(A) AUTHORS: Drayna, Dennis, et al.

(B) TITLE: Cloning and sequencing of human cholesteryl ester transfer cDNA

(C) JOURNAL: Nature

(D) VOLUME: 327

(E) ISSUE:

(F) PAGES: 632 - 634

(G) DATE: 18-JUN-1987

(K) RELEVANT RESIDUES IN SEQ ID NO:4: FROM 1 TO 476

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

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Cys Ser Lys Gly Thr Ser His Glu Ala Gly Ile Val Cys
1           5           10

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Arg Ile Thr Lys Pro Ala Leu Leu Val Leu Asn His Glu
15           20           25

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Thr Ala Lys Val Ile Gln Thr Ala Phe Gln Arg Ala Ser

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Tyr Pro Asp Ile Thr Gly Glu Lys Ala Met Met Leu Leu
 40 45 50
 Gly Gln Val Lys Tyr Gly Leu His Asn Ile Gln Ile Ser
 55 60 65
 His Leu Ser Ile Ala Ser Ser Gln Val Glu Leu Val Glu
 70 75
 Ala Lys Ser Ile Asp Val Ser Ile Gln Asn Val Ser Val
 80 85 90
 Val Phe Lys Gly Thr Leu Lys Tyr Gly Tyr Thr Thr Ala
 95 100
 Trp Trp Leu Gly Ile Asp Gln Ser Ile Asp Phe Glu Ile
 105 110 115
 Asp Ser Ala Ile Asp Leu Gln Ile Asn Thr Gln Leu Thr
 120 125 130
 Cys Asp Ser Gly Arg Val Arg Thr Asp Ala Pro Asp Cys
 135 140
 Tyr Leu Ser Phe His Lys Leu Leu Leu His Leu Gln Gly
 145 150 155
 Glu Arg Glu Pro Gly Trp Ile Lys Gln Leu Phe Thr Asn
 160 165
 Phe Ile Ser Phe Thr Leu Lys Leu Val Leu Lys Gly Gln
 170 175 180
 Ile Cys Lys Glu Ile Asn Val Ile Ser Asn Ile Met Ala
 185 190 195
 Asp Phe Val Gln Thr Arg Ala Ala Ser Ile Leu Ser Asp
 200 205
 Gly Asp Ile Gly Val Asp Ile Ser Leu Thr Gly Asp Pro
 210 215 220
 Val Ile Thr Ala Ser Tyr Leu Glu Ser His His Lys Gly
 225 230
 His Phe Ile Tyr Lys Asn Val Ser Glu Asp Leu Pro Leu
 235 240 245
 Pro Thr Phe Ser Pro Thr Leu Leu Gly Asp Ser Arg Met
 250 255 260
 Leu Tyr Phe Trp Phe Ser Glu Arg Val Phe His Ser Leu
 265 270
 Ala Lys Val Ala Phe Gln Asp Gly Arg Leu Met Leu Ser
 275 280 285

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Leu Met Gly Asp Glu Phe Lys Ala Val Leu Glu Thr Trp
 290 295
 Gly Phe Asn Thr Asn Gln Glu Ile Phe Gln Glu Val Val
 300 305 310
 Gly Gly Phe Pro Ser Gln Ala Gln Val Thr Val His Cys
 315 320 325
 Leu Lys Met Pro Lys Ile Ser Cys Gln Asn Lys Gly Val
 330 335
 Val Val Asn Ser Ser Val Met Val Lys Phe Leu Phe Pro
 340 345 350
 Arg Pro Asp Gln Gln His Ser Val Ala Tyr Thr Phe Glu
 355 360
 Glu Asp Ile Val Thr Thr Val Gln Ala Ser Tyr Ser Lys
 365 370 375
 Lys Lys Leu Phe Leu Ser Leu Leu Asp Phe Gln Ile Thr
 380 385 390
 Pro Lys Thr Val Ser Asn Leu Thr Glu Ser Ser Ser Glu
 395 400
 Ser Ile Gln Ser Phe Leu Gln Ser Met Ile Thr Ala Val
 405 410 415
 Gly Ile Pro Glu Val Met Ser Arg Leu Glu Val Val Phe
 420 425
 Thr Ala Leu Met Asn Ser Lys Gly Val Ser Leu Phe Asp
 430 435 440
 Ile Ile Asn Pro Glu Ile Ile Thr Arg Asp Gly Phe Leu
 445 450 455
 Leu Leu Gln Met Asp Phe Gly Phe Pro Glu His Leu Leu
 460 465
 Val Asp Phe Leu Gln Ser Leu Ser
 470 475

(2) INFORMATION FOR SEQ ID NO: 5:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 169 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE:
- (iii) HYPOTHETICAL:
- (iv) ANTI-SENSE:
- (ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

(2) INFORMATION FOR SEQ ID NO: 6:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

(2) INFORMATION FOR SEQ ID NO:7:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7;

Met Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile
1 5 10

Thr Glu Arg Phe Pro Arg Pro Asp Gly Arg Glu Ala Val
15 20 25

Ala Tyr Arg Phe Glu Glu Asp Ile Phe Gly Phe Pro Lys
30 35

His Leu Leu Val Asp Phe Leu Gln Ser Leu Ser
40 45 50

(2) INFORMATION FOR SEQ ID NO:8:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 1608 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE:
(iii) HYPOTHETICAL:
(iv) ANTI-SENSE:
(ix) FEATURE:
(A) NAME: translational stop codon
(B) LOCATION: 1606 - 1608

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

GGCGCTGATG ATGTTGTTGA TTCTTCTAAA TCTTTTGTGA TGGAAACTT 50
TTCTTCGTAC CACGGGACTA AACCTGGTTA TGTAGATTCC ATTCAAAAAG 100
GTATACAAAA GCCAAAATCT GGTACACAAG GAAATTATGA CGATGATTGG 150
AAAGGGTTTT ATAGTACCGA CAATAAATAC GACGCTGCGG GATACTCTGT 200
AGATAATGAA AACCCGCTCT CTGGAAAAGC TGGAGGCGTG GTCAAAGTGA 250
CGTATCCAGG ACTGACGAAG GTTCTCGCAC TAAAAGTGGA TAATGCCGAA 300
ACTATTAAGA AAGAGTTAGG TTTAAGTCTC ACTGAACCGT TGATGGAGCA 350
AGTCGGAACG GAAGAGTTTA TCAAAAGGTT CGGTGATGGT GCTTCGCGTG 400
TAGTGCTCAG CCTTCCCTTC GCTGAGGGGA GTTCTAGCGT TGAATATATT 450
AATAACTGGG AACAGGCGAA AGCGTTAAGC GTAGAACTTG AGATTAATTT 500
TGAAACCCGT GGAAAACGTG GCCAAGATGC GATGTATGAG TATATGGCTC 550
AAGCCTGTGC AGGAAATCGT GTCAGGCGAT CAGTAGGTAG CTCATTGTCA 600

TGCATAAATC TTGATTGGGA TGTCATAAGG GATAAAACTA AGACAAAGAT 650
AGACTCTTTG AAAGAGCATG GCCCTATCAA AAATAAAATG AGCGAAAGTC 700
CCAATAAAAC AGTATCTGAG GAAAAAGCTA AACAATACCT AGAAGAATTT 750
CATCAAACGG CATTAGAGCA TCCTGAATTG TCAGAACTTA AAACCGTTAC 800
TGGGACCAAT CCTGTATTCG CTGGGGCTAA CTATGCGGCG TGGGCAGTAA 850
ACGTTGCGCA AGTTATCGAT AGCGAAACAG CTGATAATTT GGAAAAGACA 900
ACTGCTGCTC TTTCGATACT TCCTGGTATC GGTAGCGTAA TGGGCATTGC 950
AGACGGTGCC GTTCACCACA ATACAGAAGA GATAGTGGCA CAATCAATAG 1000
CTTTATCGTC TTTAATGGTT GCTCAAGCTA TTCCATTGGT AGGAGAGCTA 1050
GTTGATATTG GTTTCGCTGC ATATAATTTT GTAGAGAGTA TTATCAATTT 1100
ATTTCAAGTA GTTCATAATT CGTATAATCG TCCCGCGTAT TCTCCGGGGC 1150
ATAAAACGCA ACCATTTCTT CATGACGGGT ATGCTGTCAG TTGGAACACT 1200
GTTGAAGATT CGATAATCCG AACTGGTTTT CAAGGGGAGA GTGGGCACGA 1250
CATAAAAATT ACTGCTGAAA ATACCCCGCT TCCAATCGCG GGTGTCCTAC 1300
TACCGACTAT TCCTGGAAAG CTGGACGTTA ATAAGTCCAA GACTCATATT 1350
TCCGTAAATG GTCGGAAAAT AAGGATGCGT TGCAGAGCTA TAGACGGTGA 1400
TGTAACCTTTT TGTCGCCCTA AATCTCCTGT TTATGTTGGT AATGGTGTGC 1450
ATGCGAATCT TCACGTGGCA TTTCACAGAA GCAGCTCGGA GAAAATTCAT 1500
TCTAATGAAA TTTCGTCGGA TTCCATAGGC GTTCTTGGGT ACCAGAAAAC 1550

AGTAGATCAC ACCAAGGTTA ATTCTAAGCT ATCGCTATTT TTTGAAATCA 1600

AAAGCTGA 1608

(2) INFORMATION FOR SEQ ID NO:9:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 535 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (iii) HYPOTHETICAL:
- (iv) ANTI-SENSE:
- (ix) FEATURE:
 - (A) NAME:
 - (B) LOCATION:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

Gly	Ala	Asp	Asp	Val	Val	Asp	Ser	Ser	Lys	Ser	Phe	Val	Met	1	5	10
Glu	Asn	Phe	Ser	Ser	Tyr	His	Gly	Thr	Lys	Pro	Gly	Tyr	Val	15	20	25
Asp	Ser	Ile	Gln	Lys	Gly	Ile	Gln	Lys	Pro	Lys	Ser	Gly	Thr	30	35	40
Gln	Gly	Asn	Tyr	Asp	Asp	Asp	Trp	Lys	Gly	Phe	Tyr	Ser	Thr	45	50	55
Asp	Asn	Lys	Tyr	Asp	Ala	Ala	Gly	Tyr	Ser	Val	Asp	Asn	Glu	60	65	70
Asn	Pro	Leu	Ser	Gly	Lys	Ala	Gly	Gly	Val	Val	Lys	Val	Thr	75	80	
Tyr	Pro	Gly	Leu	Thr	Lys	Val	Leu	Ala	Leu	Lys	Val	Asp	Asn	85	90	95
Ala	Glu	Thr	Ile	Lys	Lys	Glu	Leu	Gly	Leu	Ser	Leu	Thr	Glu	100	105	110
Pro	Leu	Met	Glu	Gln	Val	Gly	Thr	Glu	Glu	Phe	Ile	Lys	Arg	115	120	125
Phe	Gly	Asp	Gly	Ala	Ser	Arg	Val	Val	Leu	Ser	Leu	Pro	Phe	130	135	140
Ala	Glu	Gly	Ser	Ser	Ser	Val	Glu	Tyr	Ile	Asn	Asn	Trp	Glu	145	150	
Gln	Ala	Lys	Ala	Leu	Ser	Val	Glu	Leu	Glu	Ile	Asn	Phe	Glu	155	160	165
Thr	Arg	Gly	Lys	Arg	Gly	Gln	Asp	Ala	Met	Tyr	Glu	Tyr	Met			

170		175		180
Ala Gln	Ala Cys	Ala Gly	Asn Arg	Val Arg
	185		190	
Ser Ser	Leu Ser	Cys Ile	Asn Leu	Asp Trp
	200		205	
Asp Lys	Thr Lys	Thr Lys	Ile Glu	Ser Leu
		215		220
Pro Ile	Lys Asn	Lys Met	Ser Glu	Ser Pro
225		230		235
Ser Glu	Glu Lys	Ala Lys	Gln Tyr	Leu Glu
240			245	
Thr Ala	Leu Glu	His Pro	Glu Leu	Ser Glu
	255		260	
Thr Gly	Thr Asn	Pro Val	Phe Ala	Gly Ala
		270		275
Trp Ala	Val Asn	Val Ala	Gln Val	Ile Asp
		285		290
Asp Asn	Leu Glu	Lys Thr	Thr Ala	Ala Leu
295		300		305
Gly Ile	Gly Ser	Val Met	Gly Ile	Ala Asp
310			315	
His Asn	Thr Glu	Glu Ile	Val Ala	Gln Ser
	325		330	
Ser Leu	Met Val	Ala Gln	Ala Ile	Pro Leu
	340		345	
Val Asp	Ile Gly	Phe Ala	Ala Tyr	Asn Phe
		355		360
Ile Asn	Leu Phe	Gln Val	Val His	Asn Ser
365		370		375
Ala Tyr	Ser Pro	Gly His	Lys Thr	Gln Pro
	380		385	
Gly Tyr	Ala Val	Ser Trp	Asn Thr	Val Glu
	395		400	
Arg Thr	Gly Phe	Gln Gly	Glu Ser	Gly His
	410		415	
Thr Ala	Glu Asn	Thr Pro	Leu Pro	Ile Ala
	425		430	
Pro Thr	Ile Pro	Gly Lys	Leu Asp	Val Asn
435		440		445

170 175 180
 185 190 195
 200 205 210
 215 220
 225 230 235
 240 245 250
 255 260 265
 270 275 280
 285 290
 295 300 305
 310 315 320
 325 330 335
 340 345 350
 355 360
 365 370 375
 380 385 390
 395 400 405
 410 415 420
 425 430
 435 440 445

His Ile Ser Val Asn Gly Arg Lys Ile Arg Met Arg Cys Arg
 450 455 460
 Ala Ile Asp Gly Asp Val Thr Phe Cys Arg Pro Lys Ser Pro
 465 470 475
 Val Tyr Val Gly Asn Gly Val His Ala Asn Leu His Val Ala
 480 485 490
 Phe His Arg Ser Ser Ser Glu Lys Ile His Ser Asn Glu Ile
 495 500
 Ser Ser Asp Ser Ile Gly Val Leu Gly Tyr Gln Lys Thr Val
 505 510 515
 Asp His Thr Lys Val Asn Ser Lys Leu Ser Leu Phe Phe Glu
 520 525 530
 Ile Lys Ser
 535

- (2) INFORMATION FOR SEQ ID NO:10
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 21 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (iii) HYPOTHETICAL:
 - (iv) ANTI-SENSE:
 - (ix) FEATURE:
 - (A) NAME:
 - (B) LOCATION:
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro
 1 5 10

Lys Val Ser Ala Ser His Leu Glu
 15 20

PCT/US97/07294

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: Thomas, Lawrence J.
- (ii) TITLE OF INVENTION: PLASMID-BASED VACCINE FOR
TREATING ATHEROSCLEROSIS
- (iii) NUMBER OF SEQUENCES: 10
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Yankwich & Associates
 - (B) STREET: 130 Bishop Allen Drive
 - (C) CITY: Cambridge
 - (D) STATE: Massachusetts
 - (E) COUNTRY: USA
 - (F) ZIP: 02139
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: Windows 95/98
 - (D) SOFTWARE: Word 97
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: (not yet assigned)
 - (B) FILING DATE: 30 April 2001
 - (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION: 08/640,713
 - (B) FILING DATE: 01 May 1996 (01.05.96)
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION: 08/802,967
 - (B) FILING DATE: 21 February 1997 (21.02.97)
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION: 09/171,969
 - (B) FILING DATE: 29 October 1998 (29.10.98)
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Leon R. Yankwich
 - (B) REGISTRATION NUMBER: 30,237
 - (C) REFERENCE/DOCKET NUMBER: TCS-414.2 US-1

(2) INFORMATION FOR SEQ ID NO: 1:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1488 base pairs
 - (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (iii) HYPOTHETICAL:
- (iv) ANTI-SENSE:
- (ix) FEATURE: Structural coding sequence for

mature rabbit CETP

(A) NAME:

(B) LOCATION:

(x) PUBLICATION INFORMATION:

(A) AUTHORS: Nagashima, Mariko, et al.

(B) TITLE: Cloning and mRNA tissue

distribution of rabbit

cholesteryl ester transfer

protein

(C) JOURNAL: J. Lipid Res.

(D) VOLUME: 29

(E) ISSUE:

(F) PAGES: 1643 - 1649

(G) DATE: 1988

(K) RELEVANT RESIDUES IN SEQ ID NO:1: FROM 1 TO 1488

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

TGTCCCAAAG GCGCCTCCTA CGAGGCTGGC ATCGTGTGTC GCATCACCAA	50
GCCCGCCCTC TTGGTGTGA ACCAAGAGAC GGCCAAGGTG GTCCAGACGG	100
CCTTCCAGCG CGCCGGCTAT CCGGACGTCA GCGGCGAGAG GGCCGTGATG	150
CTCCTCGGCC GGGTCAAGTA CGGGCTGCAC AACCTCCAGA TCAGCCACCT	200
GTCCATCGCC AGCAGCCAGG TGGAGCTGGT GGACGCCAAG ACCATCGACG	250
TCGCCATCCA GAACGTGTCC GTGGTCTTCA AGGGGACCCT GAACTACAGC	300
TACACGAGTG CCTGGGGGTT GGGCATCAAT CAGTCTGTCG ACTTCGAGAT	350
CGACTCTGCC ATTGACCTCC AGATCAACAC AGAGCTGACC TGCGACGCTG	400
GCAGTGTGCG CACCAATGCC CCCGACTGCT ACCTGGCTTT CCATAAACTG	450
CTCCTGCACC TCCAGGGGGA GCGCGAGCCG GGGTGGCTCA AGCAGCTCTT	500
CACAAACTTC ATCTCCTTCA CCCTGAAGCT GATTCTGAAG CGACAGGTCT	550
GCAATGAGAT CAACACCATC TCCAACATCA TGGCTGACTT TGTCCAGACG	600
AGGGCCGCCA GCATCCTCTC AGATGGAGAC ATCGGGGTGG ACATTTCCTG	650
GACGGGGGCC CCTGTCATCA CAGCCACCTA CCTGGAGTCC CATCACAAGG	700
GTCACCTCAC GCACAAGAAC GTCTCCGAGG CCTTCCCCCT CCGCGCCTTC	750
CCGCCCCGGTCT TTCTGGGGGA CTCCCGCATG CTCTACTTCT GGTTCCTCCGA	800
TCAAGTGCTC AACTCCCTGG CCAGGGCCGC CTTCCAGGAG GGCCGTCTCG	850
TGCTCAGCCT GACAGGGGAT GAGTTCAAGA AAGTGCTGGA GACCCAGGGT	900
TTCGACACCA ACCAGGAAAT CTTCCAGGAG CTTTCCAGAG GCCTTCCCAC	950
CGGCCAGGCC CAGGTAGCCG TCCACTGCCT TAAGGTGCCC AAGATCTCCT	1000

GCCAGAACCG GGGTGTCTGTG GTGTCTTCTT CCGTCGCCGT GACGTTCCGC 1050
 TTCCCCCGCC CAGATGGCCG AGAAGCTGTG GCCTACAGGT TTGAGGAGGA 1100
 TATCATCACC ACCGTCCAGG CCTCCTACTC CCAGAAAAAG CTCTTCCTAC 1150
 ACCTCTTGGA TTTCCAGTGC GTGCCGGCCA GCGGAAGGGC AGGCAGCTCA 1200
 GCAAATCTCT CCGTGGCCCT CAGGACTGAG GCTAAGGCTG TTTCCAACCT 1250
 GACTGAGAGC CGCTCCGAGT CCCTGCAGAG CTCTCTCCGC TCCCTGATCG 1300
 CCACGGTGGG CATCCCGGAG GTCATGTCTC GGCTCGAGGT GGC GTTCACA 1350
 GCCCTCATGA ACAGCAAAGG CCTGGACCTC TTCGAAATCA TCAACCCCGA 1400
 GATTATCACT CTCGATGGCT GCCTGCTGCT GCAGATGGAC TTCGGTTTTTC 1450
 CCAAGCACCT GCTGGTGGAT TTCCTGCAGA GCCTGAGC 1488

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 496 amino acids
 (B) TYPE: amino acid

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein
 (iii) HYPOTHETICAL:
 (iv) ANTI-SENSE:
 (ix) FEATURE:

(A) NAME: Amino acid sequence for mature
 rabbit CETP protein.

(B) LOCATION:

(x) PUBLICATION INFORMATION:

(A) AUTHORS: Nagashima, Mariko, et al.
 (B) TITLE: Cloning and mRNA tissue
 distribution of rabbit
 cholesteryl ester transfer
 protein

(C) JOURNAL: J. Lipid Res.

(D) VOLUME: 29

(E) ISSUE:

(F) PAGES: 1643 - 1649

(G) DATE: 1988

(K) RELEVANT RESIDUES IN SEQ ID NO:2: FROM 1 TO 496

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Cys Pro Lys Gly Ala Ser Tyr Glu Ala Gly Ile Val Cys
 1 5 10

Arg Ile Thr Lys Pro Ala Leu Leu Val Leu Asn Gln Glu
 15 20 25

265

270

Ala Arg Ala Ala Phe Gln Glu Gly Arg Leu Val Leu Ser
275 280 285

Leu Thr Gly Asp Glu Phe Lys Lys Val Leu Glu Thr Gln
290 295

Gly Phe Asp Thr Asn Gln Glu Ile Phe Gln Glu Leu Ser
300 305 310

Arg Gly Leu Pro Thr Gly Gln Ala Gln Val Ala Val His
315 320 325

Cys Leu Lys Val Pro Lys Ile Ser Cys Gln Asn Arg Gly
330 335

Val Val Val Ser Ser Ser Val Ala Val Thr Phe Arg Phe
340 345 350

Pro Arg Pro Asp Gly Arg Glu Ala Val Ala Tyr Arg Phe
355 360

Glu Glu Asp Ile Ile Thr Thr Val Gln Ala Ser Tyr Ser
365 370 375

Gln Lys Lys Leu Phe Leu His Leu Leu Asp Phe Gln Cys
380 385 390

Val Pro Ala Ser Gly Arg Ala Gly Ser Ser Ala Asn Leu
395 400

Ser Val Ala Leu Arg Thr Glu Ala Lys Ala Val Ser Asn
405 410 415

Leu Thr Glu Ser Arg Ser Glu Ser Leu Gln Ser Ser Leu
420 425

Arg Ser Leu Ile Ala Thr Val Gly Ile Pro Glu Val Met
430 435 440

Ser Arg Leu Glu Val Ala Phe Thr Ala Leu Met Asn Ser
445 450 455

Lys Gly Leu Asp Leu Phe Glu Ile Ile Asn Pro Glu Ile
460 465

Ile Thr Leu Asp Gly Cys Leu Leu Leu Gln Met Asp Phe
470 475 480

Gly Phe Pro Lys His Leu Leu Val Asp Phe Leu Gln Ser
485 490

Leu Ser
495

(2) INFORMATION FOR SEQ ID NO: 3:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1428 base pairs
(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETICAL:

(iv) ANTI-SENSE:

(ix) FEATURE:

(A) NAME: Structural coding sequence for
mature human CETP

(B) LOCATION:

(x) PUBLICATION INFORMATION:

(A) AUTHORS: Drayna, Dennis, et al.

(B) TITLE: Cloning and sequencing of
human cholesteryl ester
transfer cDNA

(C) JOURNAL: Nature

(D) VOLUME: 327

(E) ISSUE:

(F) PAGES: 632 - 634

(G) DATE: 18-JUN-1987

(K) RELEVANT RESIDUES IN SEQ ID NO:3: FROM 1 TO 1428

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

TGCTCCAAAG GCACCTCGCA CGAGGCAGGC ATCGTGTGCC GCATCACCAA	50
GCCTGCCCTC CTGGTGTGTA ACCACGAGAC TGCCAAGGTG ATCCAGACCG	100
CCTTCCAGCG AGCCAGCTAC CCAGATATCA CGGGCGAGAA GGCCATGATG	150
CTCCTTGGCC AAGTCAAGTA TGGGTTCAC AACATCCAGA TCAGCCACTT	200
GTCCATCGCC AGCAGCCAGG TGGAGCTGGT GGAAGCCAAG TCCATTGATG	250
TCTCCATTCA GAACGTGTCT GTGGTCTTCA AGGGGACCCCT GAAGTATGGC	300
TACACCACTG CCTGGTGGCT GGGTATTGAT CAGTCCATTG ACTTCGAGAT	350
CGACTCTGCC ATTGACCTCC AGATCAACAC ACAGCTGACC TGTGACTCTG	400
GTAGAGTGCG GACCGATGCC CCTGACTGCT ACCTGTCTTT CCATAAGCTG	450
CTCCTGCATC TCCAAGGGGA GCGAGAGCCT GGGTGGATCA AGCAGCTGTT	500
CACAAATTTT ATCTCCTTCA CCCTGAAGCT GGTCTGAAG GGACAGATCT	550
GCAAAGAGAT CAACGTCATC TCTAACATCA TGGCCGATTT TGTCCAGACA	600
AGGGCTGCCA GCATCCTTTC AGATGGAGAC ATTGGGGTGG ACATTTCCCT	650
GACAGGTGAT CCCGTCATCA CAGCCTCCTA CCTGGAGTCC CATCACAAGG	700
GTCATTTTAT CTACAAGAAT GTCTCAGAGG ACCTCCCCCT CCCCACCTTC	750

TCGCCCACAC TGCTGGGGGA CTCCCGCATG CTGTACTTCT GGTTCCTCTGA	800
GCGAGTCTTC CACTCGCTGG CCAAGGTAGC TTTCCAGGAT GGCCGCCTCA	850
TGCTCAGCCT GATGGGAGAC GAGTTCAAGG CAGTGCTGGA GACCTGGGGC	900
TTCAACACCA ACCAGGAAAT CTTCCAAGAG GTTGTGCGCG GCTTCCCCAG	950
CCAGGCCCAA GTCACCGTCC ACTGCCTCAA GATGCCCAAG ATCTCCTGCC	1000
AAAACAAGGG AGTCGTGGTC AATTCTTCAG TGATGGTGAA ATTCCTCTTT	1050
CCACGCCCAG ACCAGCAACA TTCTGTAGCT TACACATTTG AAGAGGATAT	1100
CGTGACTACC GTCCAGGCCT CCTATTCTAA GAAAAAGCTC TTCTTAAGCC	1150
TCTTGGATTT CCAGATTACA CCAAAGACTG TTTCCAACCTT GACTGAGAGC	1200
AGCTCCGAGT CCATCCAGAG CTCCTGCAG TCAATGATCA CCGCTGTGGG	1250
CATCCCTGAG GTCATGTCTC GGCTCGAGGT AGTGTTTACA GCCCTCATGA	1300
ACAGCAAAGG CGTGAGCCTC TTCGACATCA TCAACCCCTGA GATTATCACT	1350
CGAGATGGCT TCCTGCTGCT GCAGATGGAC TTTGGCTTCC CTGAGCACCT	1400
GCTGGTGGAT TTCCTCCAGA GCTTGAGC	1428

(2) INFORMATION FOR SEQ ID NO: 4:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 476 amino acids

(B) TYPE: amino acid

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL:

(iv) ANTI-SENSE:

(ix) FEATURE:

(A) NAME: Amino acid sequence of mature human

CETP

(B) LOCATION:

(x) PUBLICATION INFORMATION:

(A) AUTHORS: Drayna, Dennis, et al.

(B) TITLE: Cloning and sequencing of human
cholesteryl ester transfer cDNA

(C) JOURNAL: Nature

(D) VOLUME: 327

(E) ISSUE:

(F) PAGES: 632 - 634

(G) DATE: 18-JUN-1987

(K) RELEVANT RESIDUES IN SEQ ID NO:4: FROM 1 TO 476

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

Cys Ser Lys Gly Thr Ser His Glu Ala Gly Ile Val Cys
 1 5 10
 Arg Ile Thr Lys Pro Ala Leu Leu Val Leu Asn His Glu
 15 20 25
 Thr Ala Lys Val Ile Gln Thr Ala Phe Gln Arg Ala Ser
 30 35
 Tyr Pro Asp Ile Thr Gly Glu Lys Ala Met Met Leu Leu
 40 45 50
 Gly Gln Val Lys Tyr Gly Leu His Asn Ile Gln Ile Ser
 55 60 65
 His Leu Ser Ile Ala Ser Ser Gln Val Glu Leu Val Glu
 70 75
 Ala Lys Ser Ile Asp Val Ser Ile Gln Asn Val Ser Val
 80 85 90
 Val Phe Lys Gly Thr Leu Lys Tyr Gly Tyr Thr Thr Ala
 95 100
 Trp Trp Leu Gly Ile Asp Gln Ser Ile Asp Phe Glu Ile
 105 110 115
 Asp Ser Ala Ile Asp Leu Gln Ile Asn Thr Gln Leu Thr
 120 125 130
 Cys Asp Ser Gly Arg Val Arg Thr Asp Ala Pro Asp Cys
 135 140
 Tyr Leu Ser Phe His Lys Leu Leu Leu His Leu Gln Gly
 145 150 155
 Glu Arg Glu Pro Gly Trp Ile Lys Gln Leu Phe Thr Asn
 160 165
 Phe Ile Ser Phe Thr Leu Lys Leu Val Leu Lys Gly Gln
 170 175 180
 Ile Cys Lys Glu Ile Asn Val Ile Ser Asn Ile Met Ala
 185 190 195
 Asp Phe Val Gln Thr Arg Ala Ala Ser Ile Leu Ser Asp
 200 205
 Gly Asp Ile Gly Val Asp Ile Ser Leu Thr Gly Asp Pro
 210 215 220
 Val Ile Thr Ala Ser Tyr Leu Glu Ser His His Lys Gly
 225 230
 His Phe Ile Tyr Lys Asn Val Ser Glu Asp Leu Pro Leu
 235 240 245

Pro	Thr	Phe	Ser	Pro	Thr	Leu	Leu	Gly	Asp	Ser	Arg	Met			
		250					255					260			
Leu	Tyr	Phe	Trp	Phe	Ser	Glu	Arg	Val	Phe	His	Ser	Leu			
			265						270						
Ala	Lys	Val	Ala	Phe	Gln	Asp	Gly	Arg	Leu	Met	Leu	Ser			
	275				280						285				
Leu	Met	Gly	Asp	Glu	Phe	Lys	Ala	Val	Leu	Glu	Thr	Trp			
		290					295								
Gly	Phe	Asn	Thr	Asn	Gln	Glu	Ile	Phe	Gln	Glu	Val	Val			
300				305					310						
Gly	Gly	Phe	Pro	Ser	Gln	Ala	Gln	Val	Thr	Val	His	Cys			
	315				320						325				
Leu	Lys	Met	Pro	Lys	Ile	Ser	Cys	Gln	Asn	Lys	Gly	Val			
			330					335							
Val	Val	Asn	Ser	Ser	Val	Met	Val	Lys	Phe	Leu	Phe	Pro			
	340				345						350				
Arg	Pro	Asp	Gln	Gln	His	Ser	Val	Ala	Tyr	Thr	Phe	Glu			
		355						360							
Glu	Asp	Ile	Val	Thr	Thr	Val	Gln	Ala	Ser	Tyr	Ser	Lys			
365				370					375						
Lys	Lys	Leu	Phe	Leu	Ser	Leu	Leu	Asp	Phe	Gln	Ile	Thr			
	380					385					390				
Pro	Lys	Thr	Val	Ser	Asn	Leu	Thr	Glu	Ser	Ser	Ser	Glu			
			395					400							
Ser	Ile	Gln	Ser	Phe	Leu	Gln	Ser	Met	Ile	Thr	Ala	Val			
	405				410						415				
Gly	Ile	Pro	Glu	Val	Met	Ser	Arg	Leu	Glu	Val	Val	Phe			
		420						425							
Thr	Ala	Leu	Met	Asn	Ser	Lys	Gly	Val	Ser	Leu	Phe	Asp			
430				435						440					
Ile	Ile	Asn	Pro	Glu	Ile	Ile	Thr	Arg	Asp	Gly	Phe	Leu			
	445					450						455			
Leu	Leu	Gln	Met	Asp	Phe	Gly	Phe	Pro	Glu	His	Leu	Leu			
			460					465							
Val	Asp	Phe	Leu	Gln	Ser	Leu	Ser								
	470				475										

(2) INFORMATION FOR SEQ ID NO: 5:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 169 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULE TYPE:
 (iii) HYPOTHETICAL:
 (iv) ANTI-SENSE:
 (ix) FEATURE:
 (A) NAME:
 (B) LOCATION:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

GCGGCCGCCA TGCAGTACAT CAAGGCCAAC TCCAAGTTCA TCGGCATCAC	50
GGAGCGCTTC CCCC GCCCAG ATGGCCGAGA AGCTGTGGCC TACAGGTTTG	100
AGGAGGATAT CTTCGGTTTT CCCAAGCACC TGCTGGTGGG TTTCTGCAG	150
AGCCTGAGCT AGCGGCCGC	169

(2) INFORMATION FOR SEQ ID NO: 6:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 169 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULE TYPE: DNA
 (iii) HYPOTHETICAL:
 (iv) ANTI-SENSE:
 (ix) FEATURE:
 (A) NAME: Complementary strand to SEQ ID NO:5
 (B) LOCATION: 1 to 169

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

GCGGCCGCTA GCTCAGGCTC TGCAGGAAAT CCACCAGCAG GTGCTTGGGA	50
AAACCGAAGA TATCCTCCTC AACCTGTAG GCCACAGCTT CTCGGCCATC	100
TGGGCGGGGG AAGCGCTCCG TGATGCCGAT GAACTTGGAG TTGGCCTTGA	150
TGTACTGCAT CGCGGCCGC	169

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 50 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear
 (ii) MOLECULE TYPE: peptide
 (iii) HYPOTHETICAL:
 (iv) ANTI-SENSE:
 (ix) FEATURE: amino acid sequence of peptide encoded
 by bases 10 to 159 of SEQ ID NO:5

(A) NAME:
(B) LOCATION:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

Met Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile
1 5 10
Thr Glu Arg Phe Pro Arg Pro Asp Gly Arg Glu Ala Val
15 20 25
Ala Tyr Arg Phe Glu Glu Asp Ile Phe Gly Phe Pro Lys
30 35
His Leu Leu Val Asp Phe Leu Gln Ser Leu Ser
40 45 50

(2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1608 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: Single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE:

(iii) HYPOTHETICAL:

(iv) ANTI-SENSE:

(ix) FEATURE:

(A) NAME: translational stop codon

(B) LOCATION: 1606 - 1608

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

GGCGCTGATG ATGTTGTTGA TTCTTCTAAA TCTTTTGTGA TGGAAAACTT 50
TTCTTCGTAC CACGGGACTA AACCTGGTTA TG TAGATTCC ATTCAAAAAG 100
GTATACAAAA GCCAAAATCT GGTACACAAG GAAATTATGA CGATGATTGG 150
AAAGGGTTTT ATAGTACCGA CAATAAATAC GACGCTGCGG GATACTCTGT 200
AGATAATGAA AACCCGCTCT CTGGAAAAGC TGGAGGCGTG GTCAAAGTGA 250
CGTATCCAGG ACTGACGAAG GTTCTCGCAC TAAAAGTGGA TAATGCCGAA 300
ACTATTAAGA AAGAGTTAGG TTTAAGTCTC ACTGAACCGT TGATGGAGCA 350
AGTCGGAACG GAAGAGTTTA TCAAAGGTT CGGTGATGGT GCTTCGCGTG 400
TAGTGCTCAG CCTTCCCTTC GCTGAGGGGA GTTCTAGCGT TGAATATATT 450
AATAACTGGG AACAGGCGAA AGCGTTAAGC GTAGAACTTG AGATTAATTT 500
TGAAACCCGT GGAAAACGTG GCCAAGATGC GATGTATGAG TATATGGCTC 550
AAGCCTGTGC AGGAAATCGT GTCAGGCGAT CAGTAGGTAG CTCATTGTCA 600

Gly	Ala	Asp	Asp	Val	Val	Asp	Ser	Ser	Lys	Ser	Phe	Val	Met
1				5					10				
Glu	Asn	Phe	Ser	Ser	Tyr	His	Gly	Thr	Lys	Pro	Gly	Tyr	Val
15					20				25				
Asp	Ser	Ile	Gln	Lys	Gly	Ile	Gln	Lys	Pro	Lys	Ser	Gly	Thr
	30					35					40		
Gln	Gly	Asn	Tyr	Asp	Asp	Asp	Trp	Lys	Gly	Phe	Tyr	Ser	Thr
		45					50					55	
Asp	Asn	Lys	Tyr	Asp	Ala	Ala	Gly	Tyr	Ser	Val	Asp	Asn	Glu
			60					65					70
Asn	Pro	Leu	Ser	Gly	Lys	Ala	Gly	Gly	Val	Val	Lys	Val	Thr
				75					80				
Tyr	Pro	Gly	Leu	Thr	Lys	Val	Leu	Ala	Leu	Lys	Val	Asp	Asn
85					90					95			
Ala	Glu	Thr	Ile	Lys	Lys	Glu	Leu	Gly	Leu	Ser	Leu	Thr	Glu
	100					105					110		
Pro	Leu	Met	Glu	Gln	Val	Gly	Thr	Glu	Glu	Phe	Ile	Lys	Arg
		115					120					125	
Phe	Gly	Asp	Gly	Ala	Ser	Arg	Val	Val	Leu	Ser	Leu	Pro	Phe
			130					135					140
Ala	Glu	Gly	Ser	Ser	Ser	Val	Glu	Tyr	Ile	Asn	Asn	Trp	Glu
						145				150			
Gln	Ala	Lys	Ala	Leu	Ser	Val	Glu	Leu	Glu	Ile	Asn	Phe	Glu
155						160					165		
Thr	Arg	Gly	Lys	Arg	Gly	Gln	Asp	Ala	Met	Tyr	Glu	Tyr	Met
	170					175						180	
Ala	Gln	Ala	Cys	Ala	Gly	Asn	Arg	Val	Arg	Arg	Ser	Val	Gly
		185					190					195	
Ser	Ser	Leu	Ser	Cys	Ile	Asn	Leu	Asp	Trp	Asp	Val	Ile	Arg
			200					205					210
Asp	Lys	Thr	Lys	Thr	Lys	Ile	Glu	Ser	Leu	Lys	Glu	His	Gly
				215						220			
Pro	Ile	Lys	Asn	Lys	Met	Ser	Glu	Ser	Pro	Asn	Lys	Thr	Val
225					230					235			
Ser	Glu	Glu	Lys	Ala	Lys	Gln	Tyr	Leu	Glu	Glu	Phe	His	Gln
	240					245					250		
Thr	Ala	Leu	Glu	His	Pro	Glu	Leu	Ser	Glu	Leu	Lys	Thr	Val
		255					260					265	

SEQUENCE LISTING

- (1) GENERAL INFORMATION:
- (i) APPLICANT: Thomas, Lawrence J.
 - (ii) TITLE OF INVENTION: PLASMID-BASED VACCINE FOR TREATING ATHEROSCLEROSIS
 - (iii) NUMBER OF SEQUENCES: 10
 - (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Banner & Witcoff, Ltd.
 - (B) STREET: 75 State Street, Suite 2300
 - (C) CITY: Boston
 - (D) STATE: Massachusetts
 - (E) COUNTRY: USA
 - (F) ZIP: 02109-1807
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: WordPerfect 6.1
 - (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: (not yet assigned)
 - (B) FILING DATE: 01 May 1997 (01.05.97)
 - (C) CLASSIFICATION:
 - (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION: 08/640,713
 - (B) FILING DATE: 01 May 1996 (01.05.96)
 - (viii) PRIOR APPLICATION DATA:
 - (A) APPLICATION: 08/802,967
 - (B) FILING DATE: 21 February 1997 (21.02.97)
 - (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Leon R. Yankwich
 - (B) REGISTRATION NUMBER: 30,237
 - (C) REFERENCE/DOCKET NUMBER: TCS 414.1 PCT (05872)
- (2) INFORMATION FOR SEQ ID NO: 1:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1488 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (iii) HYPOTHETICAL:
 - (iv) ANTI-SENSE:
 - (ix) FEATURE: Structural coding sequence for mature rabbit CETP
 - (A) NAME:
 - (B) LOCATION:
 - (x) PUBLICATION INFORMATION:
 - (A) AUTHORS: Nagashima, Mariko, et al.

(B) TITLE: Cloning and mRNA tissue
distribution of rabbit
cholesteryl ester transfer
protein
(C) JOURNAL: J. Lipid Res.
(D) VOLUME: 29
(E) ISSUE:
(F) PAGES: 1643 - 1649
(G) DATE: 1988
(K) RELEVANT RESIDUES IN SEQ ID NO:1: FROM 1 TO
1488

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

TGTCCCAAAG GCGCCTCCTA CGAGGCTGGC ATCGTGTGTC GCATCACCAA	50
GCCCGCCCTC TTGGTGTGTA ACCAAGAGAC GGCCAAGGTG GTCCAGACGG	100
CCTTCCAGCG CGCCGGCTAT CCGGACGTCA GCGGCGAGAG GGCCGTGATG	150
CTCCTCGGCC GGGTCAAGTA CGGGCTGCAC AACCTCCAGA TCAGCCACCT	200
GTCCATCGCC AGCAGCCAGG TGGAGCTGGT GGACGCCAAG ACCATCGACG	250
TCGCCATCCA GAACGTGTCC GTGGTCTTCA AGGGGACCCT GAACTACAGC	300
TACACGAGTG CCTGGGGGTT GGGCATCAAT CAGTCTGTG ACTTCGAGAT	350
CGACTCTGCC ATTGACCTCC AGATCAACAC AGAGCTGACC TGCGACGCTG	400
GCAGTGTGCG CACCAATGCC CCCGACTGCT ACCTGGCTTT CCATAAACTG	450
CTCCTGCACC TCCAGGGGGA GCGCGAGCCG GGGTGGCTCA AGCAGCTCTT	500
CACAAACTTC ATCTCCTTCA CCCTGAAGCT GATTCTGAAG CGACAGGTCT	550
GCAATGAGAT CAACACCATC TCCAACATCA TGGCTGACTT TGTCCAGACG	600
AGGGCCGCCA GCATCCTCTC AGATGGAGAC ATCGGGGTGG ACATTTCCGT	650
GACGGGGGCC CCTGTCATCA CAGCCACCTA CCTGGAGTCC CATCACAAGG	700
GTCACTTCAC GCACAAGAAC GTCTCCGAGG CCTTCCCCCT CCGCGCCTTC	750
CCGCCCCGTC TTCTGGGGGA CTCCCGCATG CTCTACTTCT GGTTCCTCGA	800
TCAAGTGCTC AACTCCCTGG CCAGGGCCGC CTTCCAGGAG GGCCGTCTCG	850
TGCTCAGCCT GACAGGGGAT GAGTTCAAGA AAGTGCTGGA GACCCAGGGT	900
TTCGACACCA ACCAGGAAAT CTTCCAGGAG CTTTCCAGAG GCCTTCCCAC	950
CGGCCAGGCC CAGGTAGCCG TCCACTGCCT TAAGGTGCCC AAGATCTCCT	1000
GCCAGAACCG GGGTGTCTGT GTGTCTTCTT CCGTCGCCGT GACGTTCCGC	1050
TTCCCCGCC CAGATGGCCG AGAAGCTGTG GCCTACAGGT TTGAGGAGGA	1100

TATCATCACC ACCGTCCAGG CCTCCTACTC CCAGAAAAAG CTCTTCCTAC 1150
 ACCTCTTGGA TTTCCAGTGC GTGCCGGCCA GCGGAAGGGC AGGCAGCTCA 1200
 GCAAATCTCT CCGTGGCCCT CAGGACTGAG GCTAAGGCTG TTTCCAACCT 1250
 GACTGAGAGC CGCTCCGAGT CCCTGCAGAG CTCTCTCCGC TCCCTGATCG 1300
 CCACGGTGGG CATCCCGGAG GTCATGTCTC GGCTCGAGGT GGC GTTCACA 1350
 GCCCTCATGA ACAGCAAAGG CCTGGACCTC TTCGAAATCA TCAACCCCGA 1400
 GATTATCACT CTCGATGGCT GCCTGCTGCT GCAGATGGAC TTCGGTTTTT 1450
 CCAAGCACCT GCTGGTGGAT TTCCTGCAGA GCCTGAGC 1488

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 496 amino acids

(B) TYPE: amino acid

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL:

(iv) ANTI-SENSE:

(ix) FEATURE:

(A) NAME: Amino acid sequence for mature rabbit CETP protein.

(B) LOCATION:

(x) PUBLICATION INFORMATION:

(A) AUTHORS: Nagashima, Mariko, et al.

(B) TITLE: Cloning and mRNA tissue distribution of rabbit cholesteryl ester transfer protein

(C) JOURNAL: J. Lipid Res.

(D) VOLUME: 29

(E) ISSUE:

(F) PAGES: 1643 - 1649

(G) DATE: 1988

(K) RELEVANT RESIDUES IN SEQ ID NO:2: FROM 1 TO 496

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Cys Pro Lys Gly Ala Ser Tyr Glu Ala Gly Ile Val Cys
 1 5 10

Arg Ile Thr Lys Pro Ala Leu Leu Val Leu Asn Gln Glu
 15 20 25

Thr Ala Lys Val Val Gln Thr Ala Phe Gln Arg Ala Gly
 30 35

Tyr Pro Asp Val Ser Gly Glu Arg Ala Val Met Leu Leu